

FIG. 1

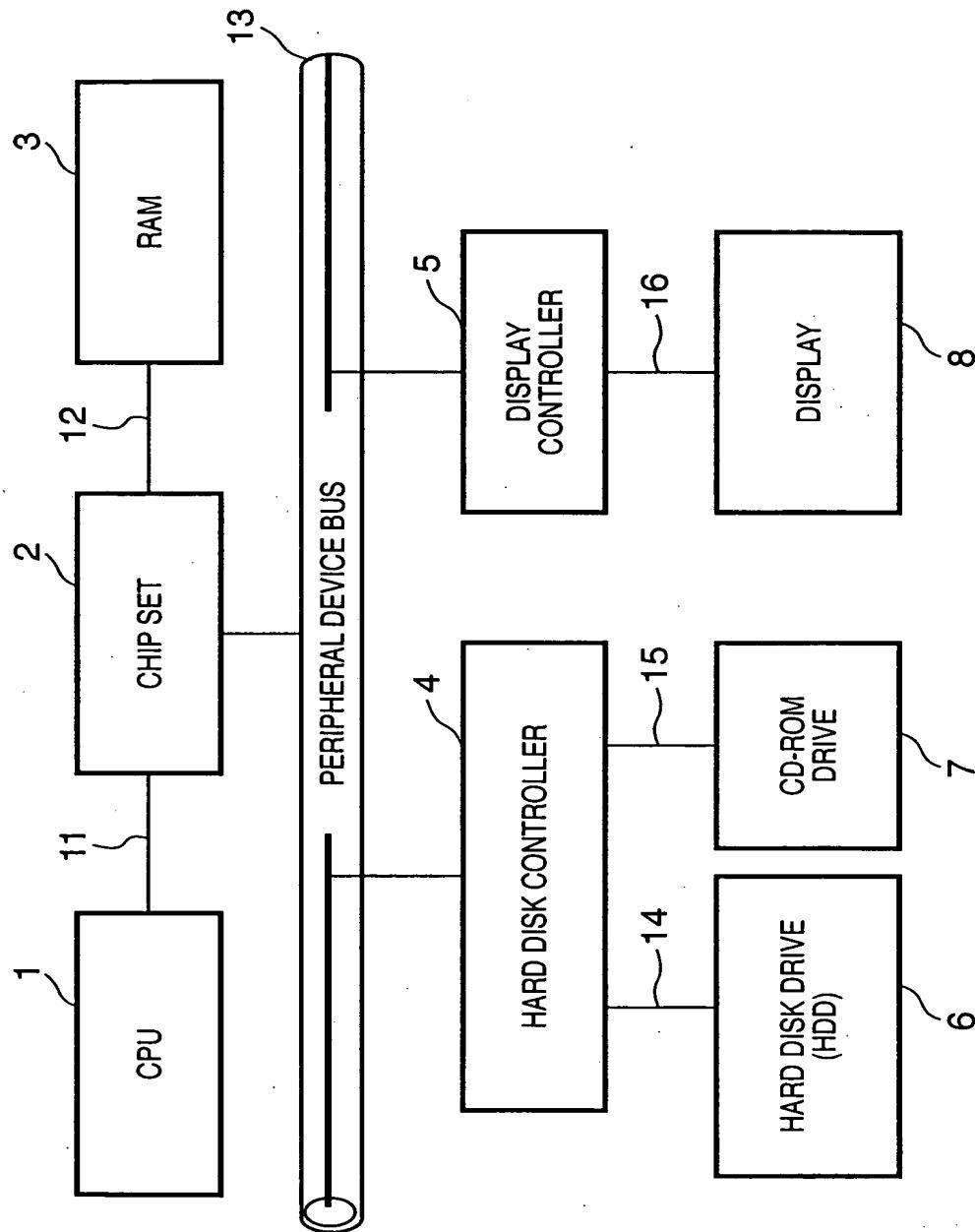


FIG. 2

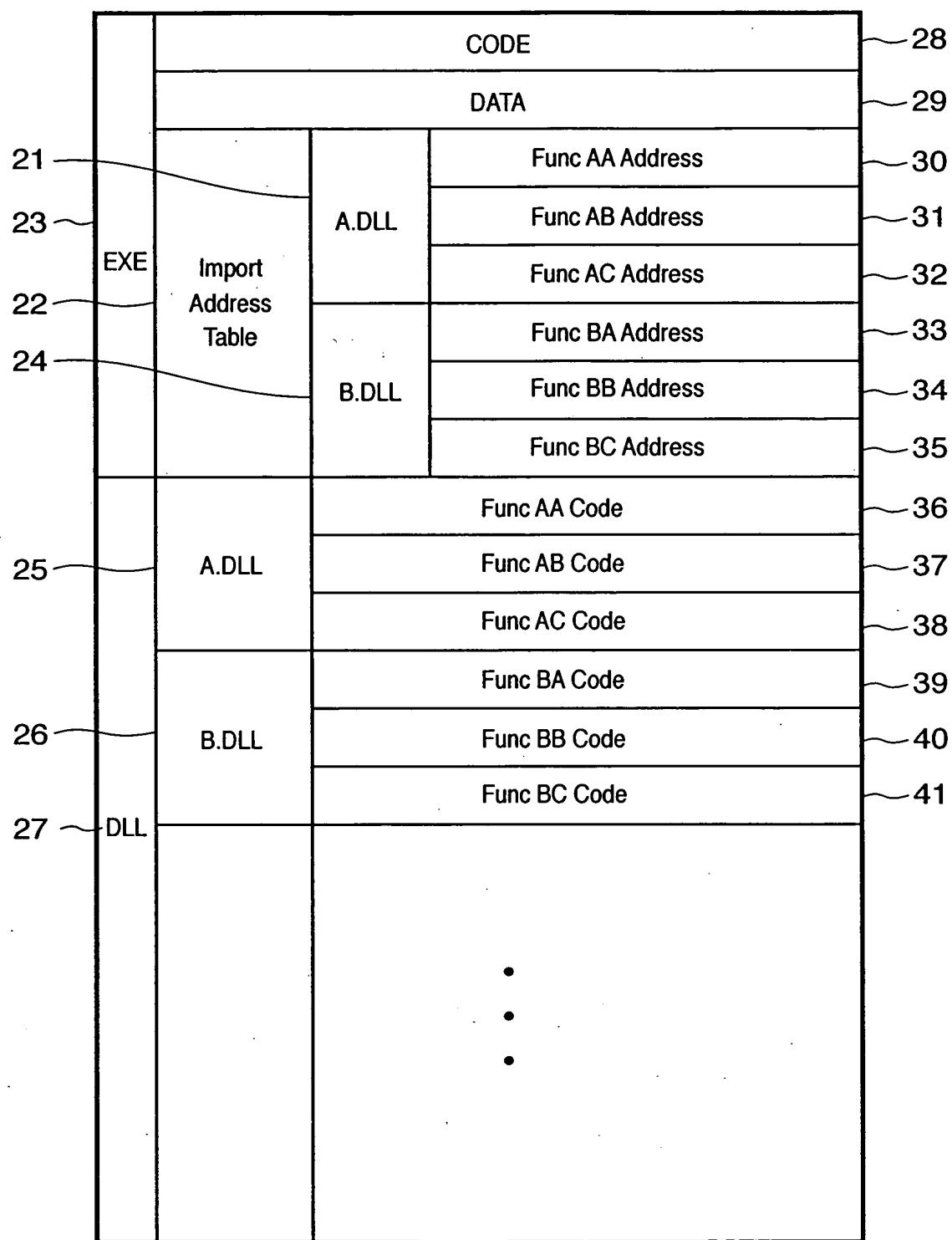


FIG. 3

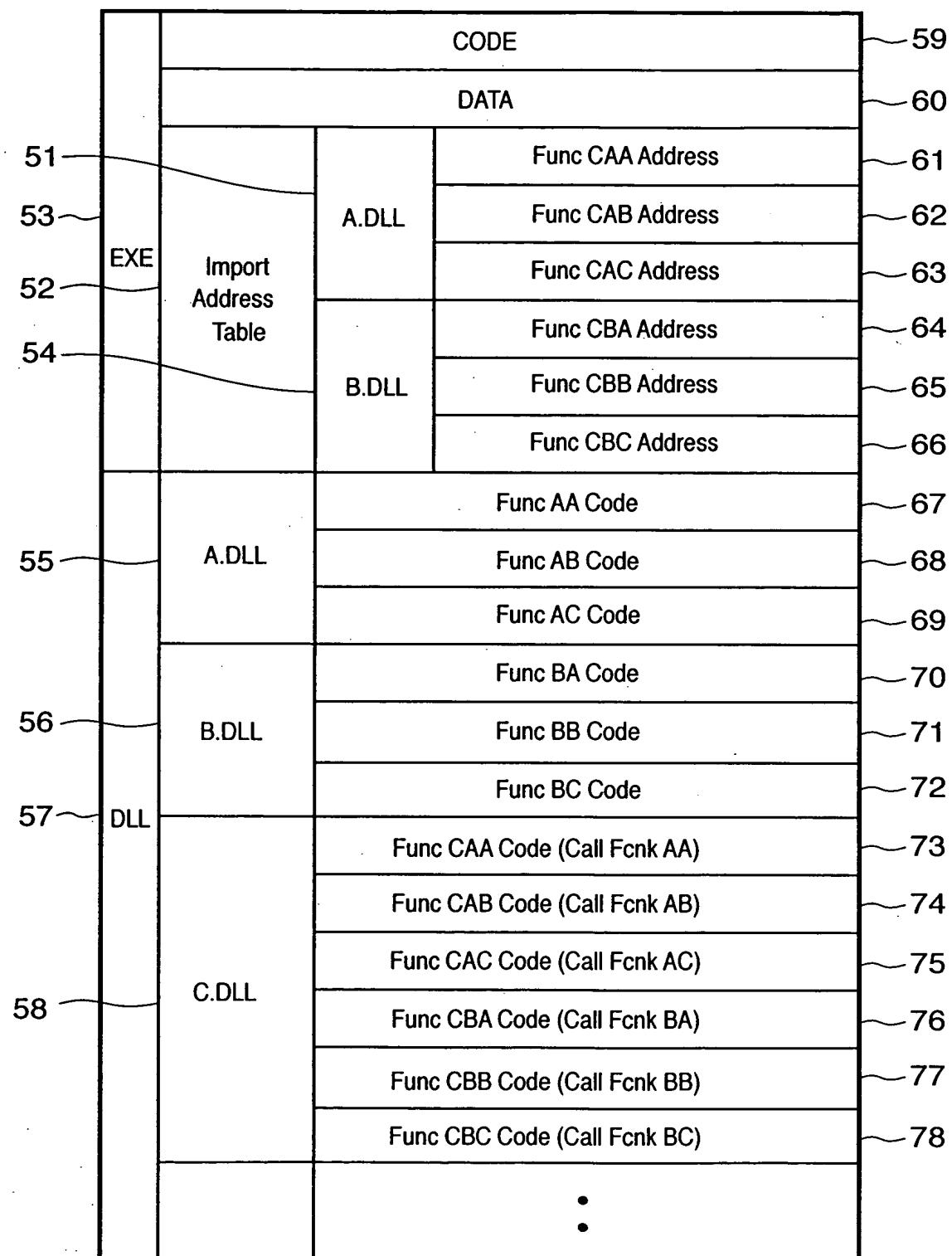


FIG. 4A

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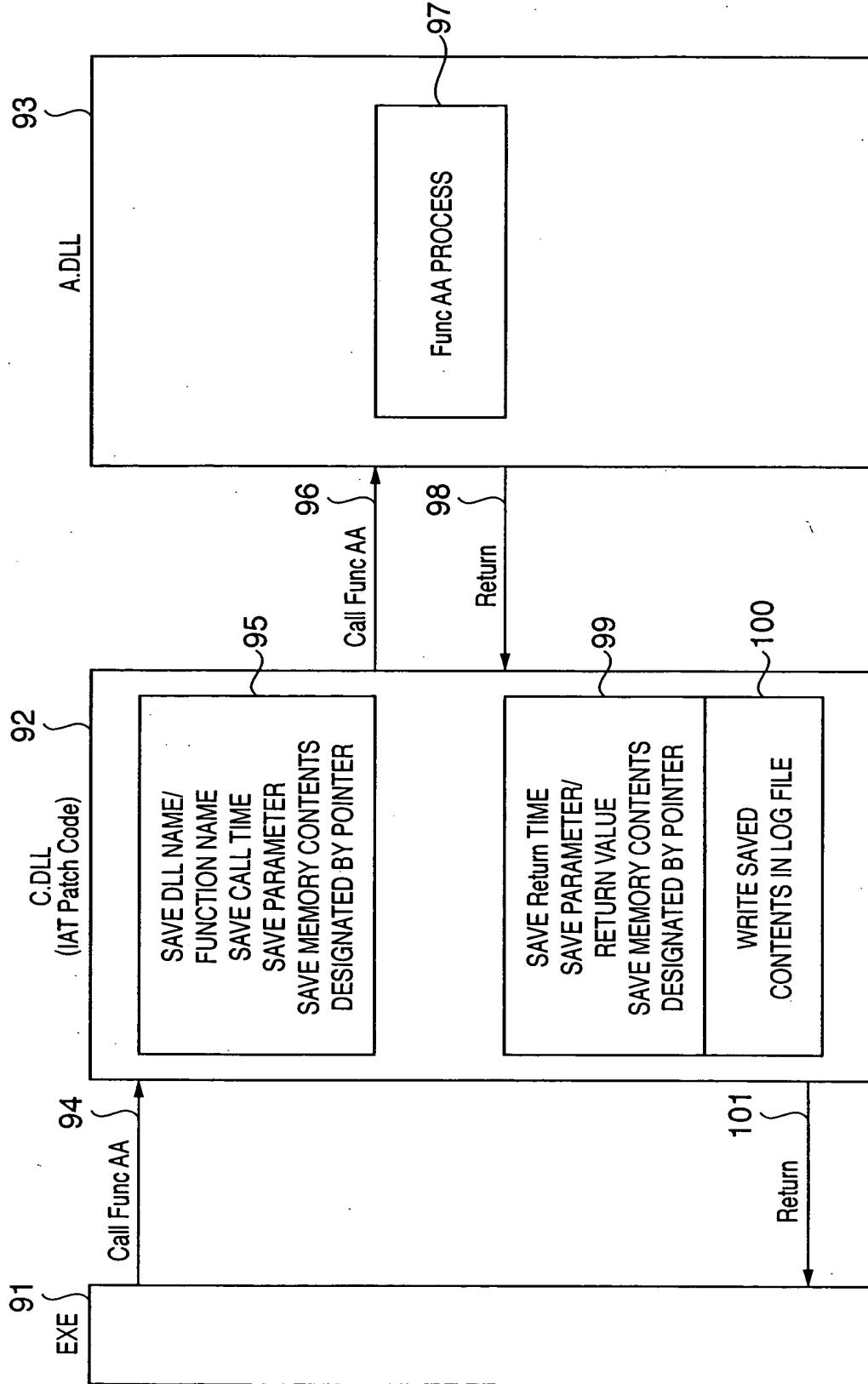


FIG. 4B

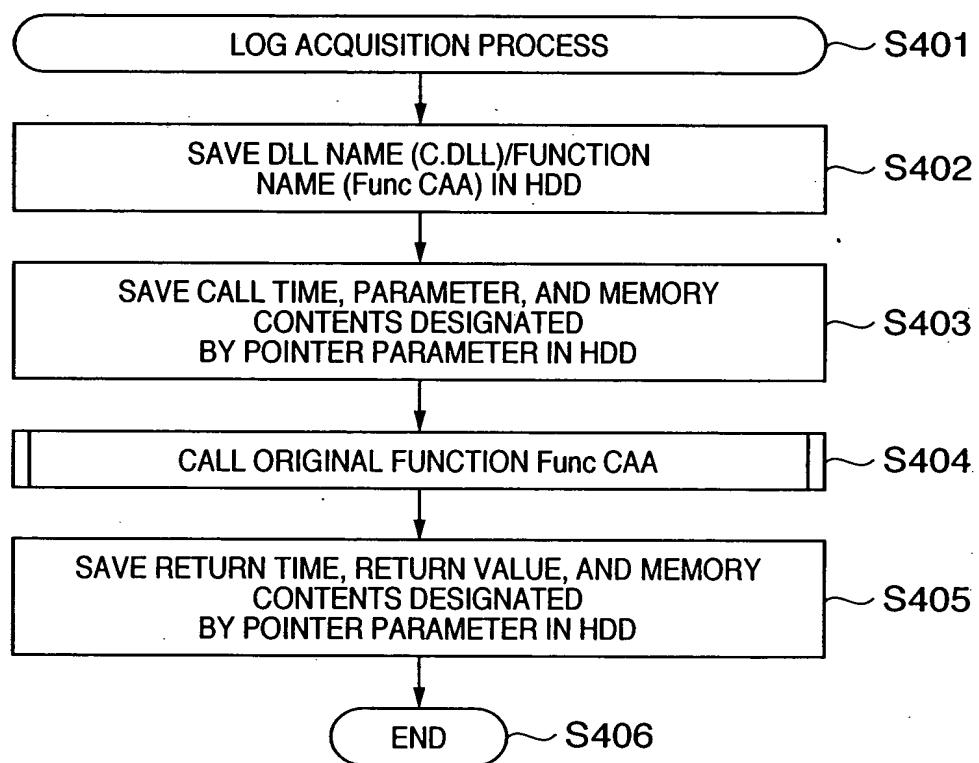


FIG. 5

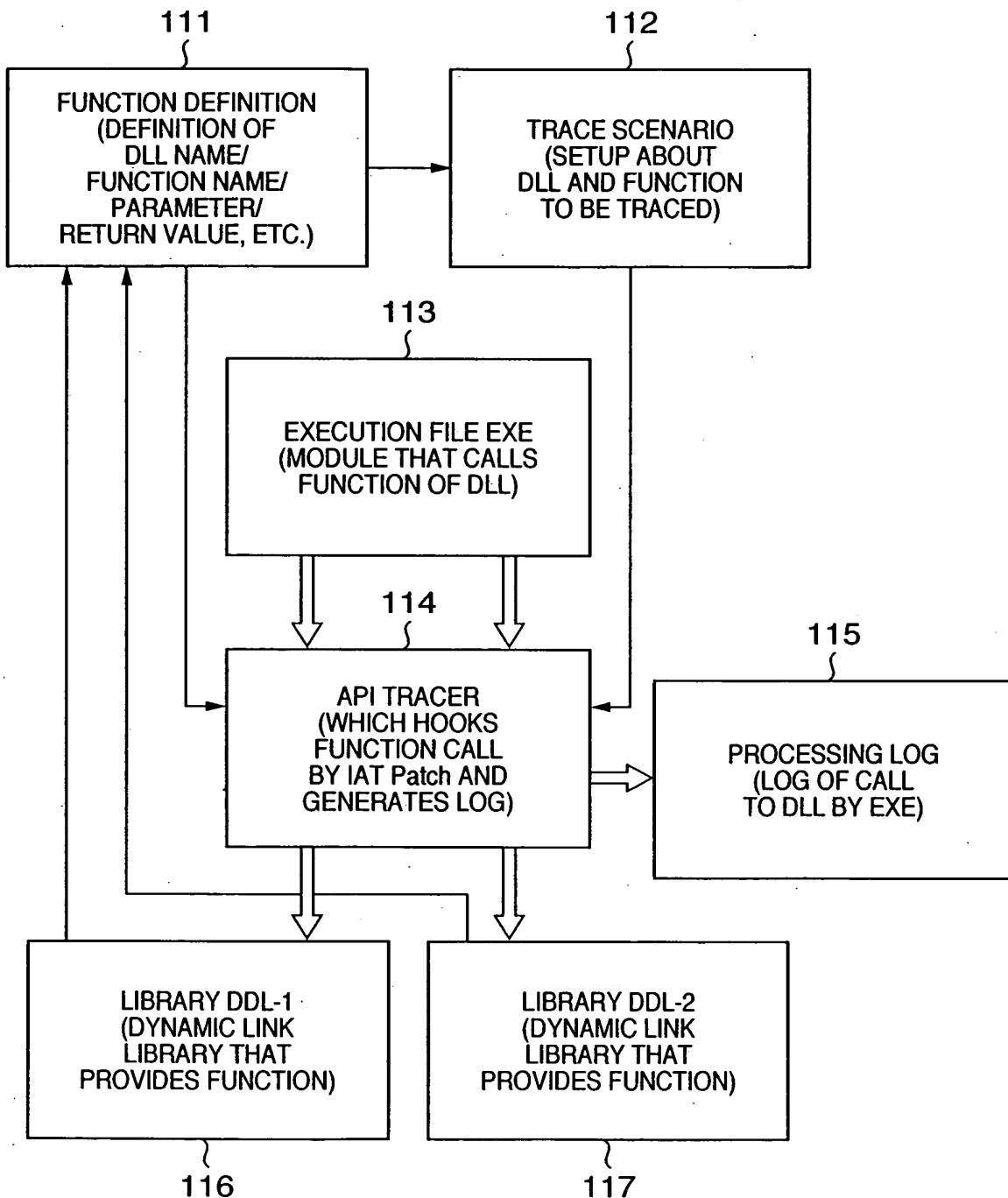


FIG. 6

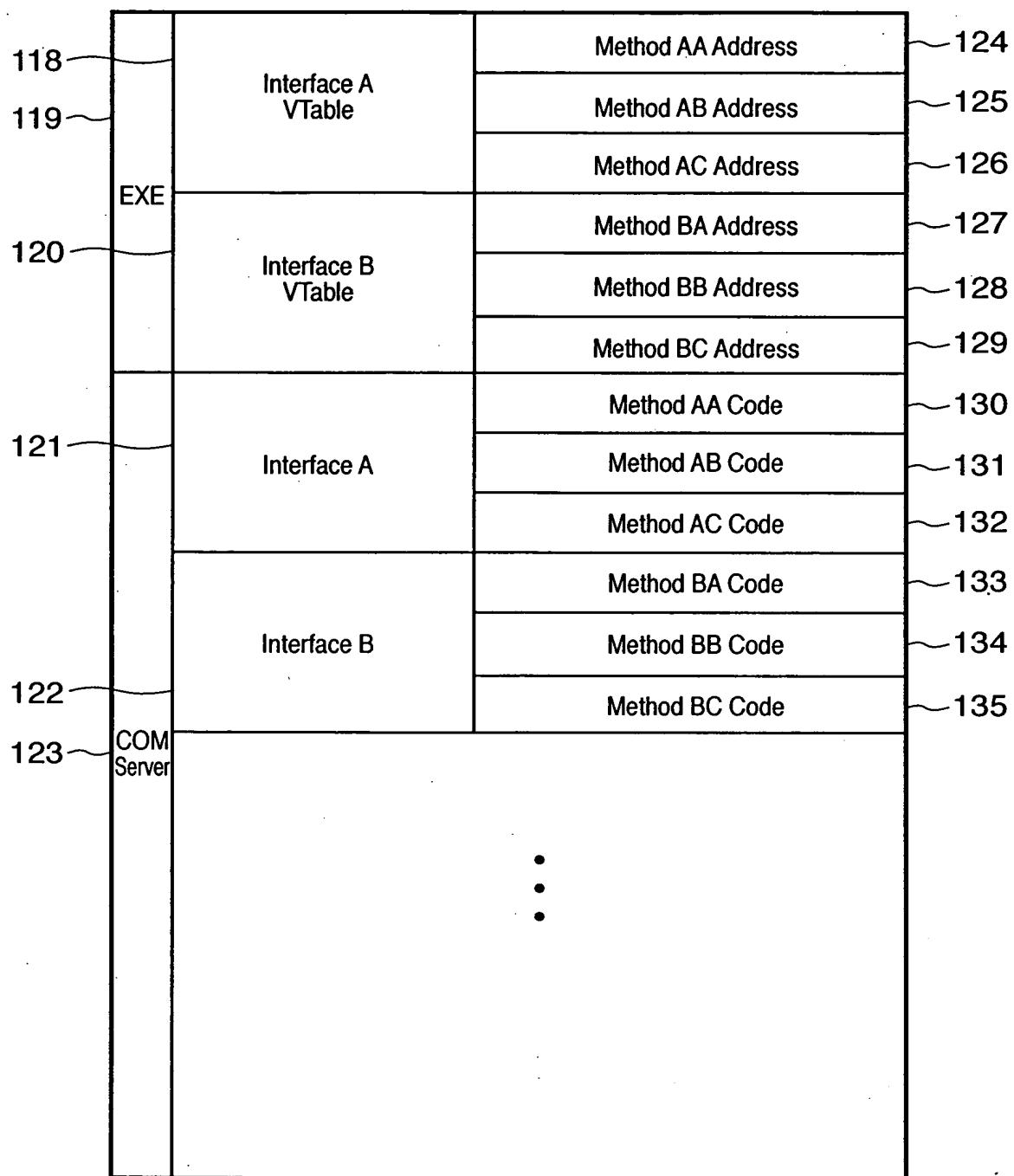
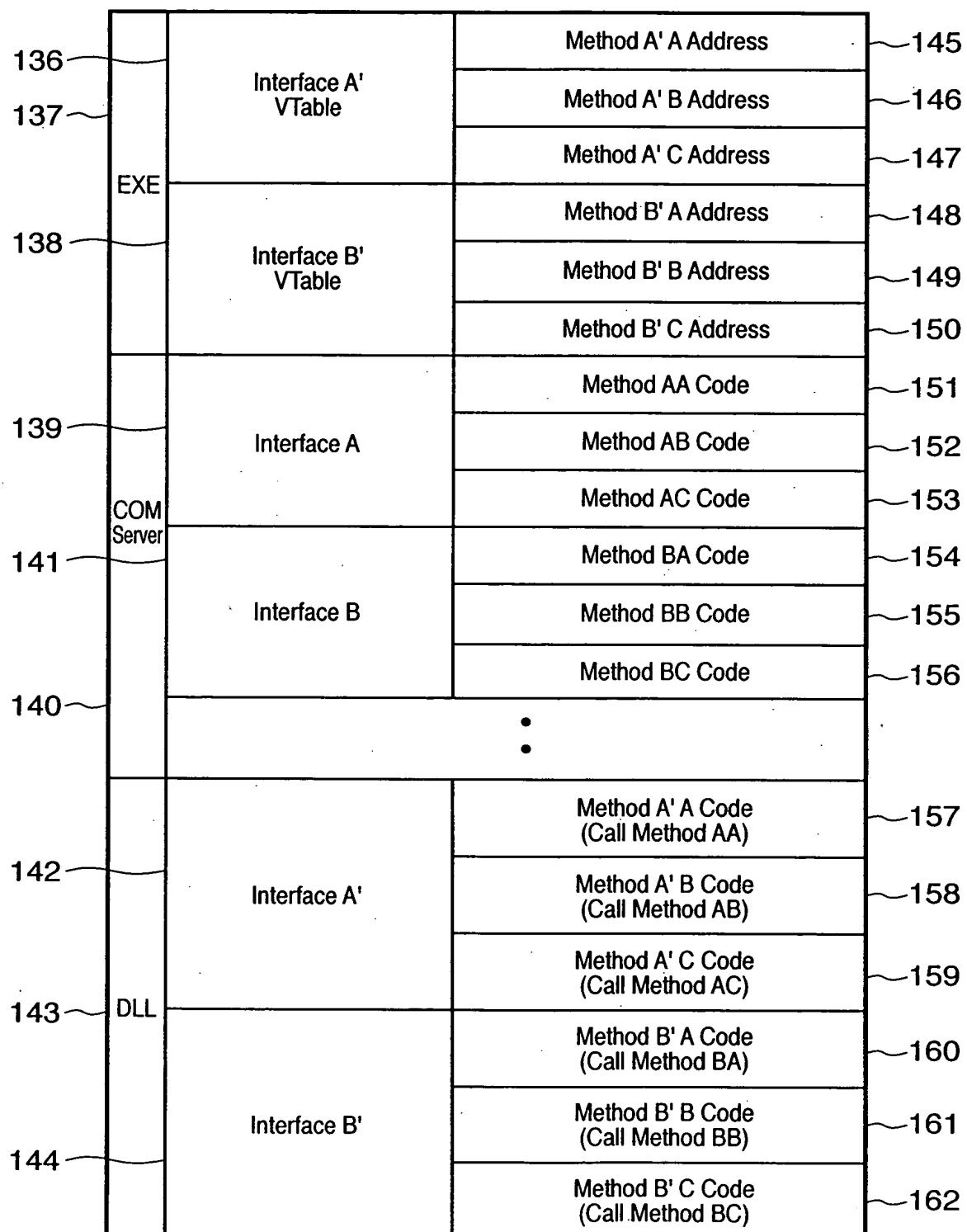


FIG. 7



F I G. 8A

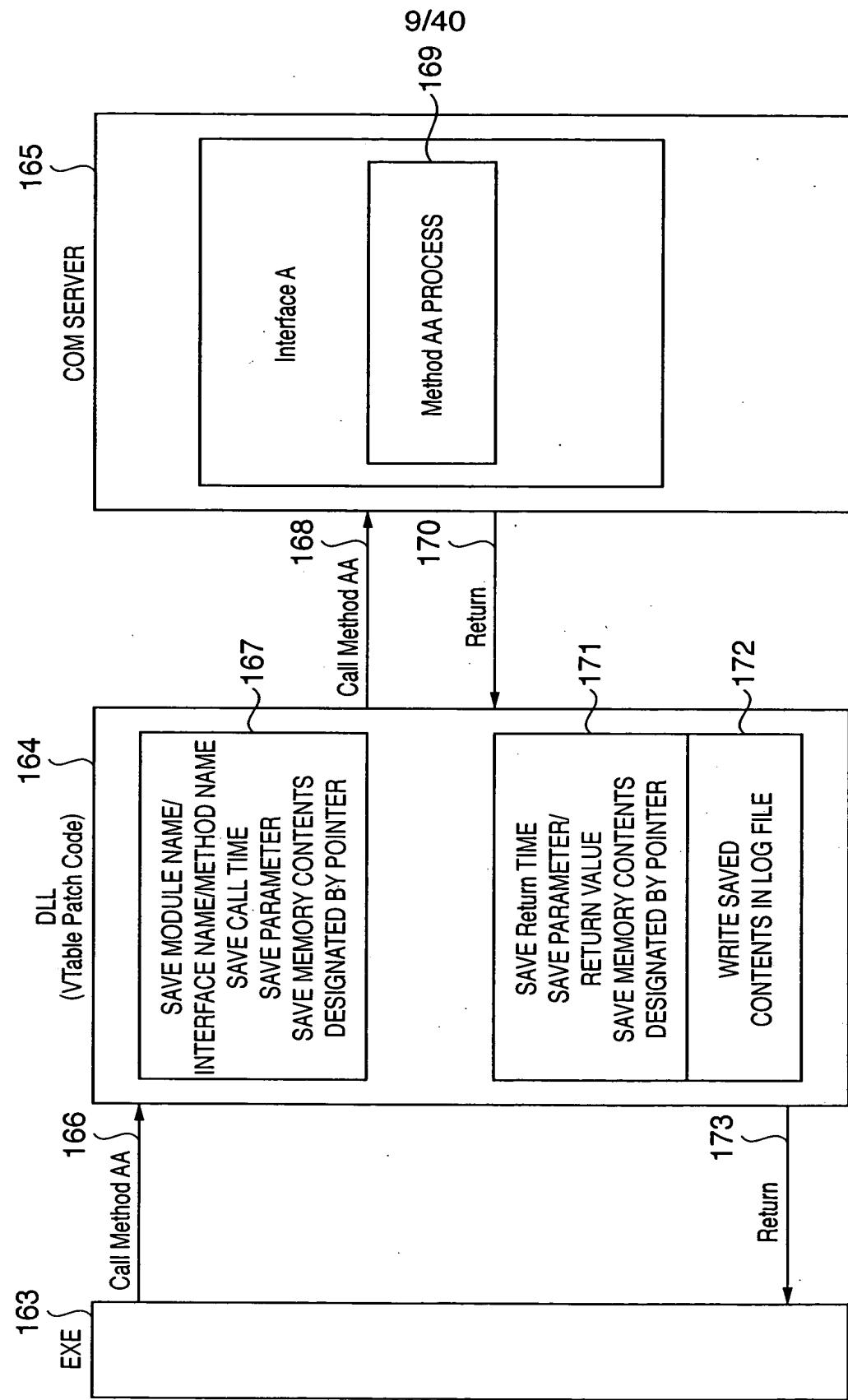


FIG. 8B

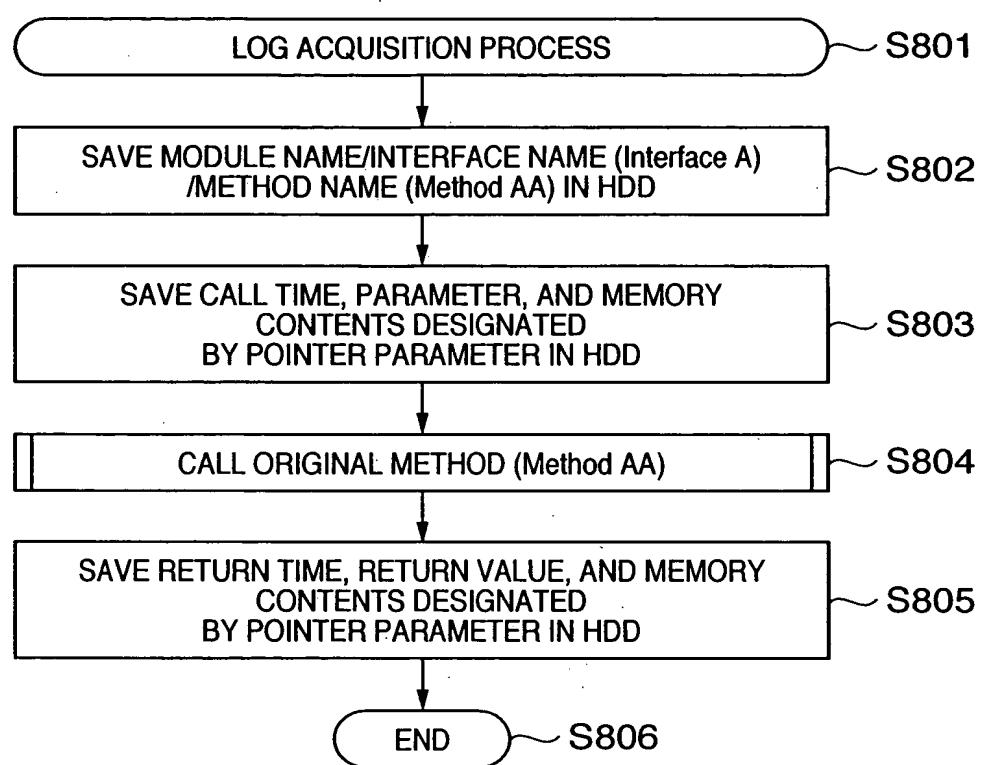


FIG. 9

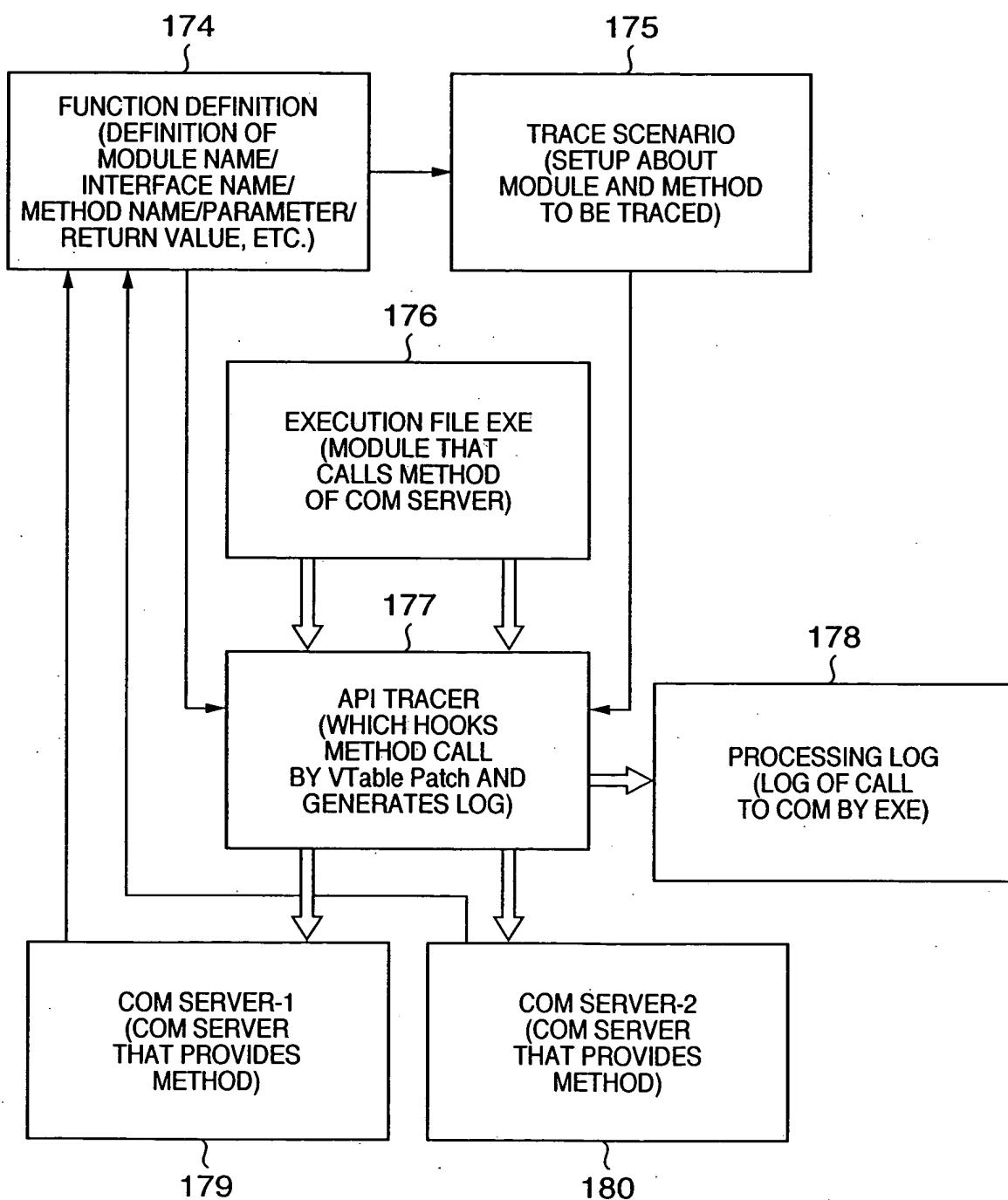


FIG. 10

Interface NAME : Interface A

Method NAME : Method AA

ARGUMENT : DWORD dwID

RETURN VALUE : DWORD dwRet

Interface NAME : Interface A

Method NAME : Method AB

ARGUMENT : DWORD dwSize

RETURN VALUE : int nRet

Interface NAME : Interface A

Method NAME : Method AC

ARGUMENT : DWORD dwSize

RETURN VALUE : DWORD dwRet

Interface NAME : Interface B

Method NAME : Method BA

ARGUMENT : DWORD dwSize

RETURN VALUE : int nRet

Interface NAME : Interface B

Method NAME : Method BC

ARGUMENT : DWORD dwID

RETURN VALUE : DWORD dwRet

FIG. 11

Interface NAME :	Interface A
Method NAME :	Method AA
ARGUMENT :	DWORD dwID : 256
RETURN VALUE :	DWORD dwRet : 0
In TIME :	2002/03/25 22 : 24 : 12. 025
Out TIME :	2002/03/25 22 : 24 : 12. 035
Interface NAME :	Interface B
Method NAME :	Method BA
ARGUMENT :	DWORD dwSize : 512
RETURN VALUE :	int nRet : -1
In TIME :	2002/03/25 22 : 24 : 12. 046
Out TIME :	2002/03/25 22 : 24 : 12. 057
Interface NAME :	Interface B
Method NAME :	Method BC
ARGUMENT :	DWORD dwID : 12
RETURN VALUE :	DWORD dwRet : 2
In TIME :	2002/03/25 22 : 24 : 12. 068
Out TIME :	2002/03/25 22 : 24 : 12. 079

...

FIG. 12

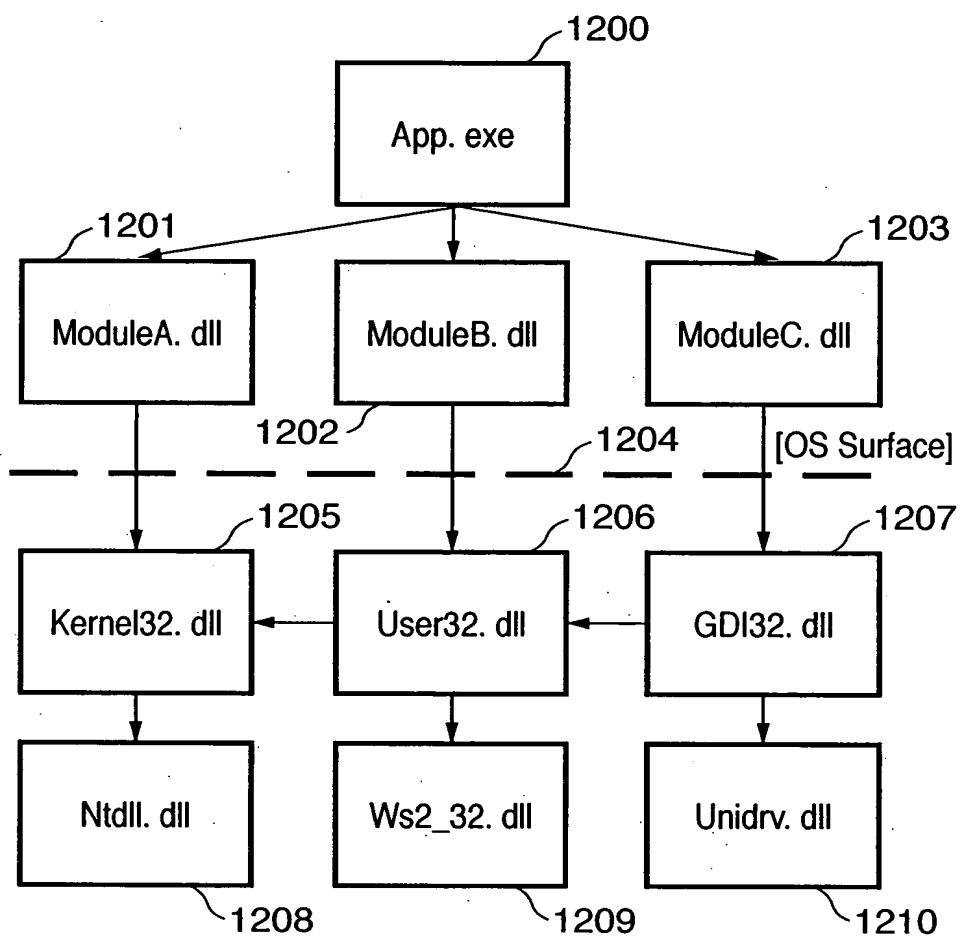


FIG. 13

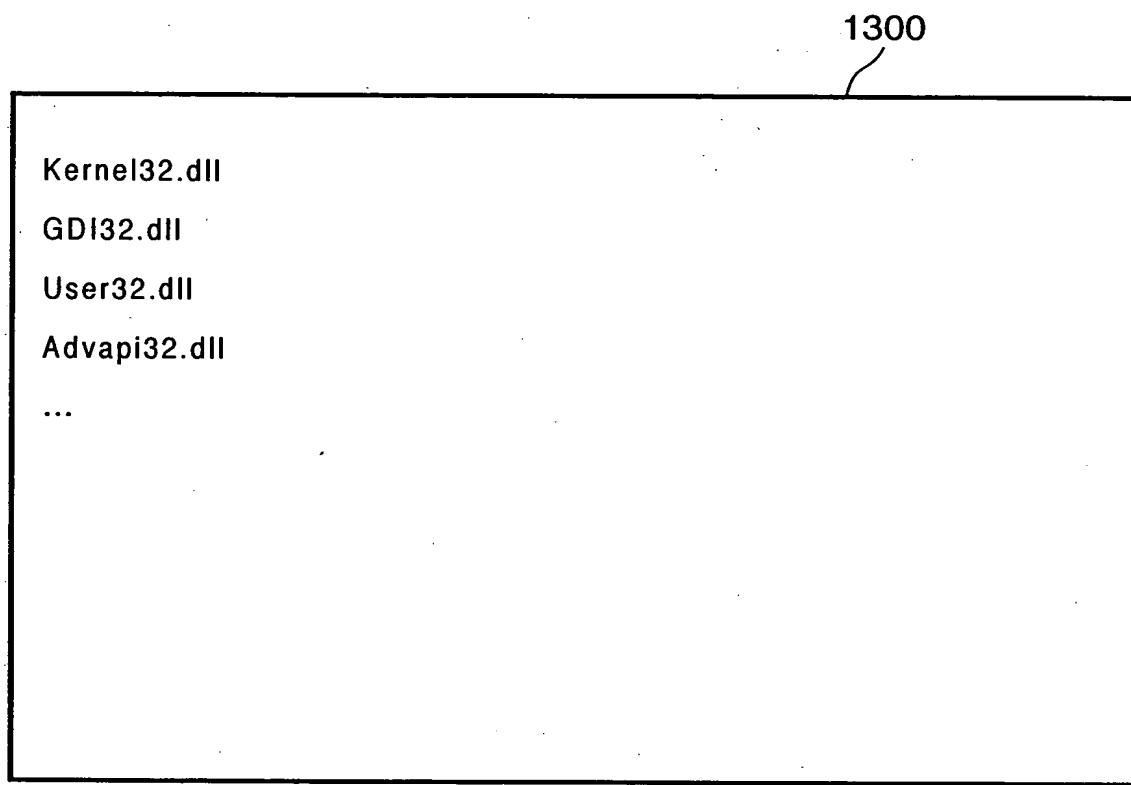


FIG. 14

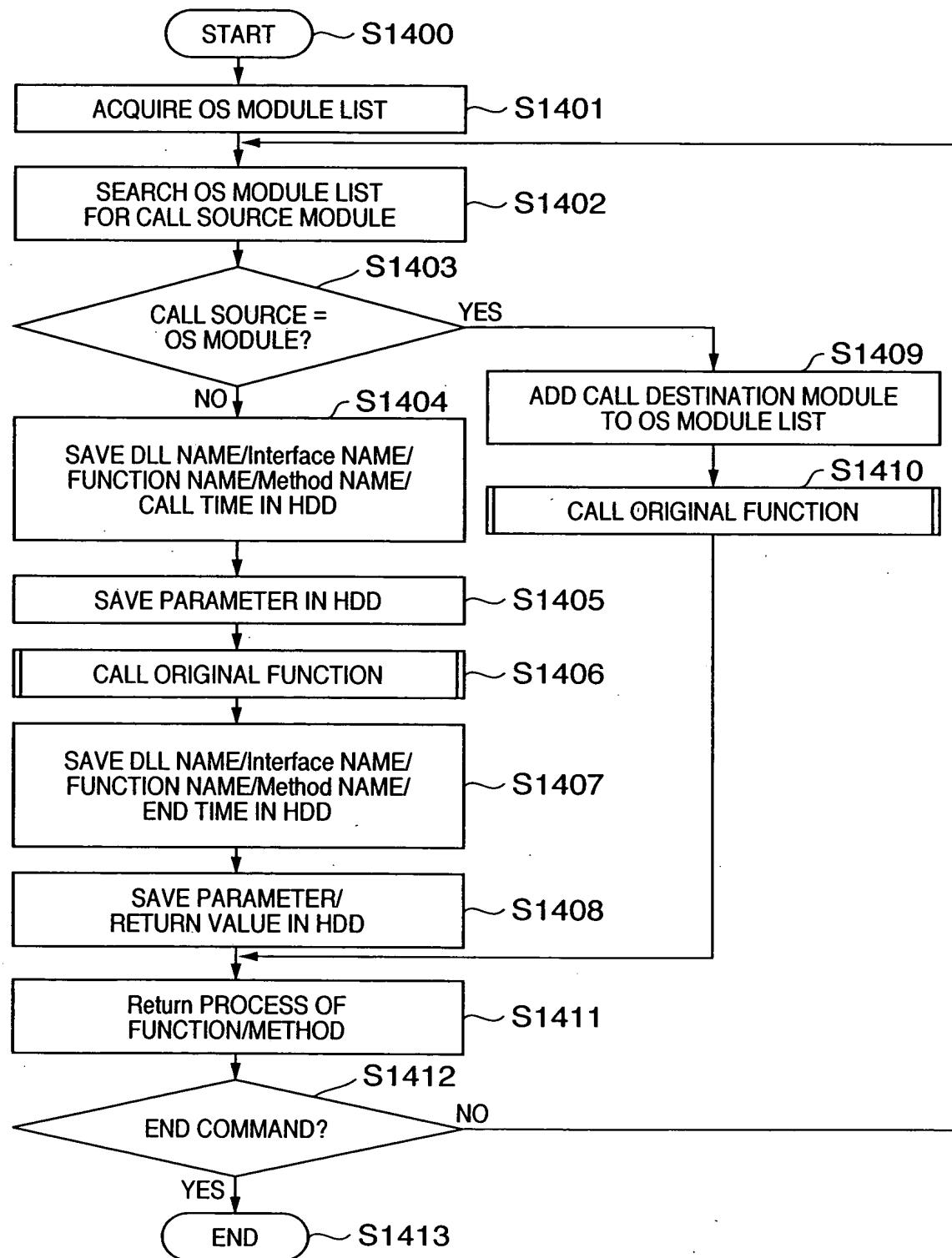


FIG. 15A

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MODULE NAME	ModuleA. dll
FUNCTION NAME :	FuncA
In ARGUMENT :	int nIndex : 3
Out ARGUMENT :	DWORD* nRet : 0x007a61c0/0x0000000a(10)
RETURN VALUE :	int : 0
In TIME :	2002/03/25 22:24:12.025
Out TIME :	2002/03/25 22:24:12.035
MODULE NAME	Kernel32. dll
FUNCTION NAME :	FuncB
In ARGUMENT :	int nIndex : 1
Out ARGUMENT :	DWORD* nRet : 0x007a625c/0x0000000b(11)
RETURN VALUE :	int : 0
In TIME :	2002/03/25 22:24:12.046
Out TIME :	2002/03/25 22:24:12.057
MODULE NAME	ModuleB. dll
FUNCTION NAME :	FuncD
In ARGUMENT :	int nIndex : 4
Out ARGUMENT :	DWORD* nRet : 0x007b61c0/0x0000000d(13)
RETURN VALUE :	int : 0
In TIME :	2002/03/25 22:24:12.089
Out TIME :	2002/03/25 22:24:13.000
MODULE NAME	User32. dll
FUNCTION NAME :	FuncE
In ARGUMENT :	int nIndex : 6
Out ARGUMENT :	DWORD* nRet : 0x002a61c0/0x0000000e(14)
RETURN VALUE :	int : 0
In TIME :	2002/03/25 22:24:13.011
Out TIME :	2002/03/25 22:24:13.022

...

FIG. 15B

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MODULE NAME	ModuleA. dll
FUNCTION NAME :	FuncA
In ARGUMENT :	int nIndex : 3
Out ARGUMENT :	DWORD* nRet : 0x007a61c0/0x0000000a(10)
RETURN VALUE :	int : 0
In TIME :	2002/03/25 22:24:12. 025
Out TIME :	2002/03/25 22:24:12. 035
MODULE NAME	Kernel32. dll
FUNCTION NAME :	FuncB
In ARGUMENT :	int nIndex : 1
Out ARGUMENT :	DWORD* nRet : 0x007a625c/0x0000000b(11)
RETURN VALUE :	int : 0
In TIME :	2002/03/25 22:24:12. 046
Out TIME :	2002/03/25 22:24:12. 057
MODULE NAME	Mtdll. dll
FUNCTION NAME :	FuncC
In ARGUMENT :	int nIndex : 2
Out ARGUMENT :	DWORD* nRet : 0x007a6122/0x0000000c(12)
RETURN VALUE :	int : 0
In TIME :	2002/03/25 22:24:12. 068
Out TIME :	2002/03/25 22:24:12. 079
MODULE NAME	ModuleB. dll
FUNCTION NAME :	FuncD
In ARGUMENT :	int nIndex : 4
Out ARGUMENT :	DWORD* nRet : 0x007b61c0/0x0000000d(13)
RETURN VALUE :	int : 0
In TIME :	2002/03/25 22:24:12. 089
Out TIME :	2002/03/25 22:24:13. 000
MODULE NAME	User32. dll
FUNCTION NAME :	FuncE
In ARGUMENT :	int nIndex : 6
Out ARGUMENT :	DWORD* nRet : 0x002a61c0/0x0000000e(14)
RETURN VALUE :	int : 0
In TIME :	2002/03/25 22:24:13. 011
Out TIME :	2002/03/25 22:24:13. 022
MODULE NAME	Ws2_32. dll
FUNCTION NAME :	FuncF
In ARGUMENT :	int nIndex : 5
Out ARGUMENT :	DWORD* nRet : 0x002a6dc0/0x0000000f(15)
RETURN VALUE :	int : 0
In TIME :	2002/03/25 22:24:13. 034
Out TIME :	2002/03/25 22:24:13. 055

...

FIG. 16

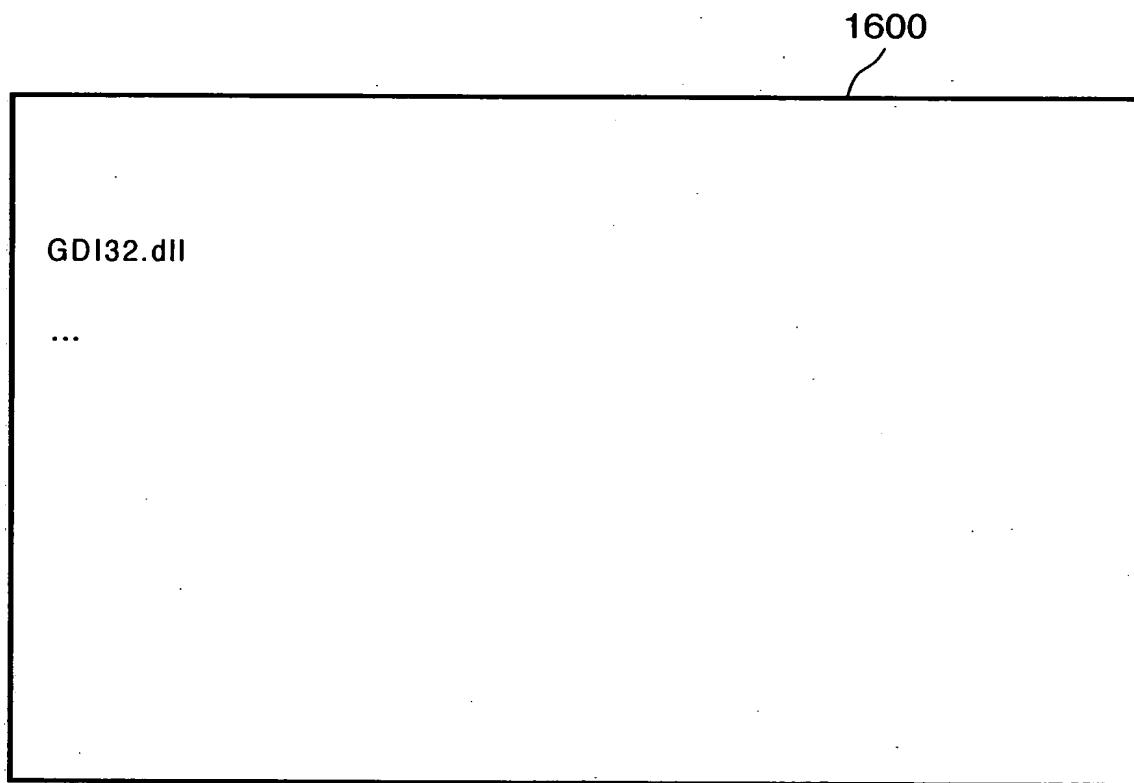


FIG. 17

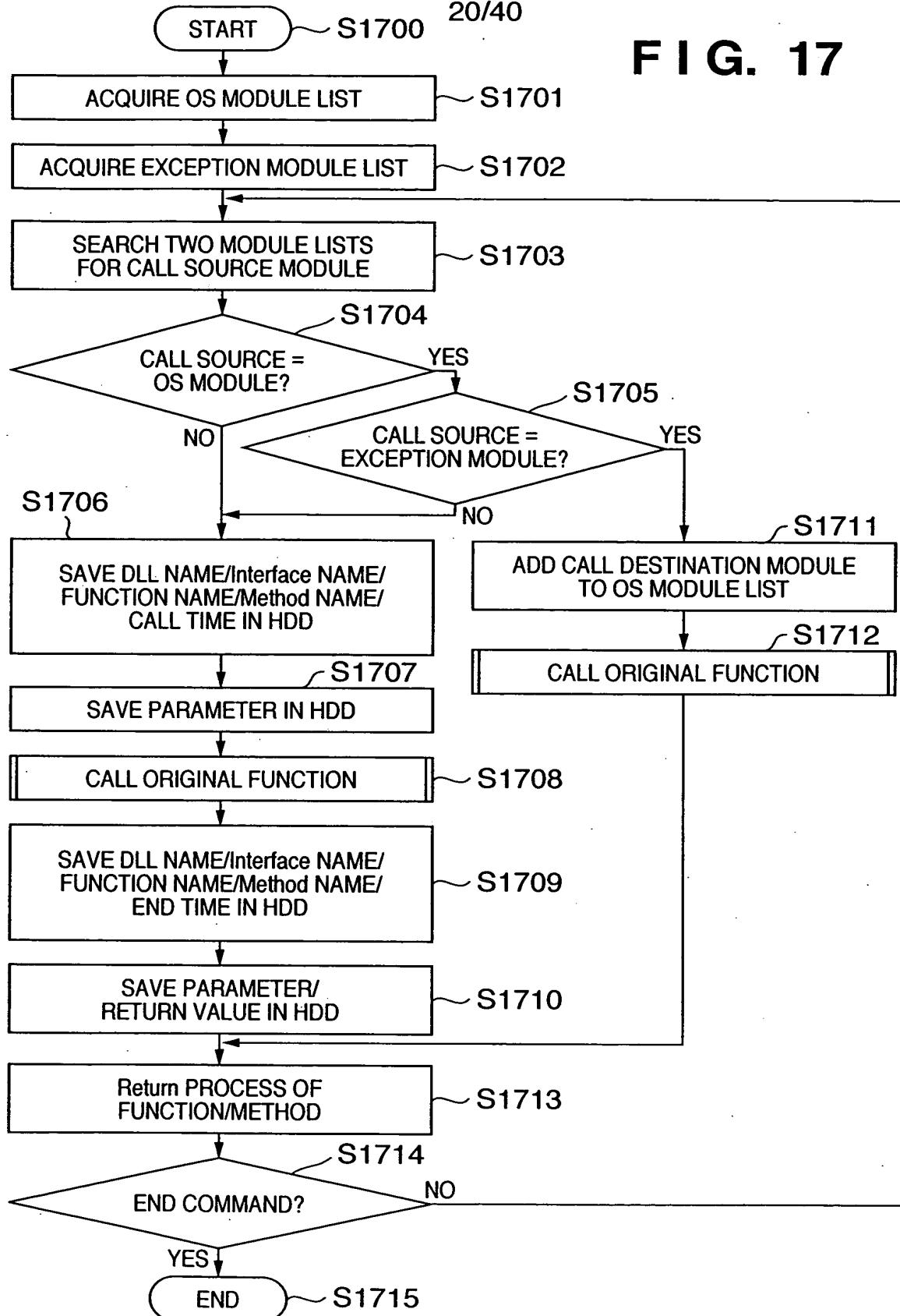


FIG. 18

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```
[  
    uuid(58DB5633-0694-4340-97CE-4E1AC6BFFBA7),      /TestDIIStd.  
    helpstring("TestDIIStd Type Library For PAT"),  
    version(1.0)  
]  
  
library TestDIIStd  
{  
    typedef [public] struct  
    {  
        char chParam;  
        unsigned char uchParam;  
        short sParam;  
        unsigned short usParam;  
        int nParam;  
        unsigned int unParam;  
        long lParam;  
        unsigned long ulParam;  
        double dbParam;  
        float fParam;  
    }TESTSTRUCT;  
    typedef [public] TESTSTRUCT *LPTESTSTRUCT;  
  
    //DEFINE_GUID(GUID_PROGID, 0x8e037d65, 0xefa0, 0x40e7, 0x91, 0x43, 0xef, 0x70, 0x56, 0x94, 0x5b,  
    0x79);  
    [  
        uuid(8E037D65-EFA0-40e7-9143-EF7056945B79),  
        helpstring("TestDIIStd.dll for PAT object." ),  
    ]  
    interface  
        test  
        {  
            char _stdcall FuncCharStd([in] char chParam);  
            char* _stdcall FuncPCharStd([in, out] char* lpchParam);  
  
            TESTSTRUCT _stdcall FuncStructStd([in]TESTSTRUCT TestStruct);  
            LPTESTSTRUCT _stdcall FuncPStructStd([in, out]LPTESTSTRUCT lpTestStruct);  
        };  
    }  
}
```

F I G. 19

```
#define PAT_PARAM_ATTR_ID 00000000-0000-0000-0000-000000000000 1900

typedef [public] struct
{
    char chParam1;
    [custom(PAT_PARAM_ATTR_ID, "structsizeextra_is()")] long cExtraBinaryDataSize; 1901
    char chParam2;
    char chParam3;
} TESTSTRUCT_WITHEXTRA;

interface
test
{
    void FuncStructsizeextras
    (
        [out] TESTSTRUCT_WITHEXTRA* lpParam 1902
    );
};
```

FIG. 20

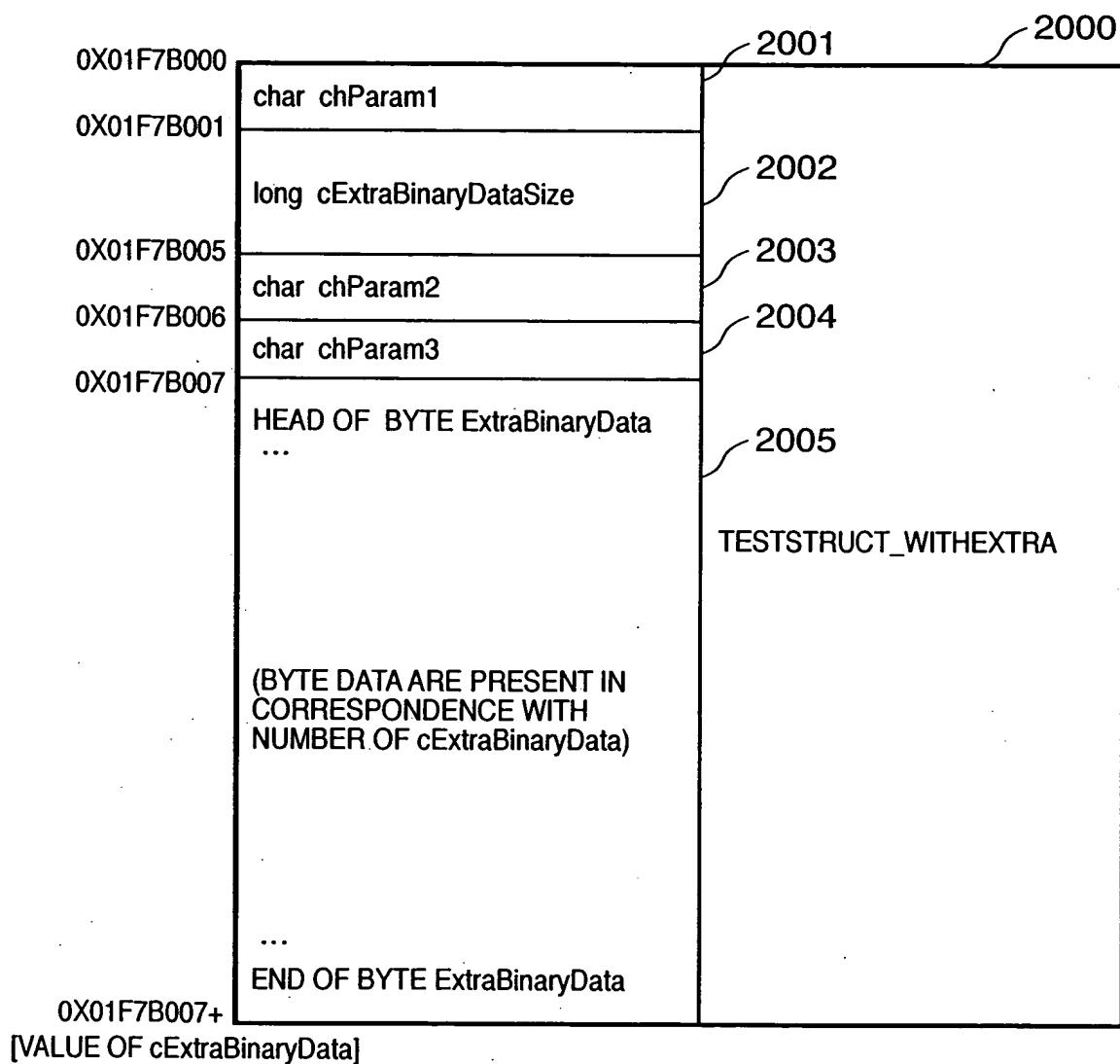
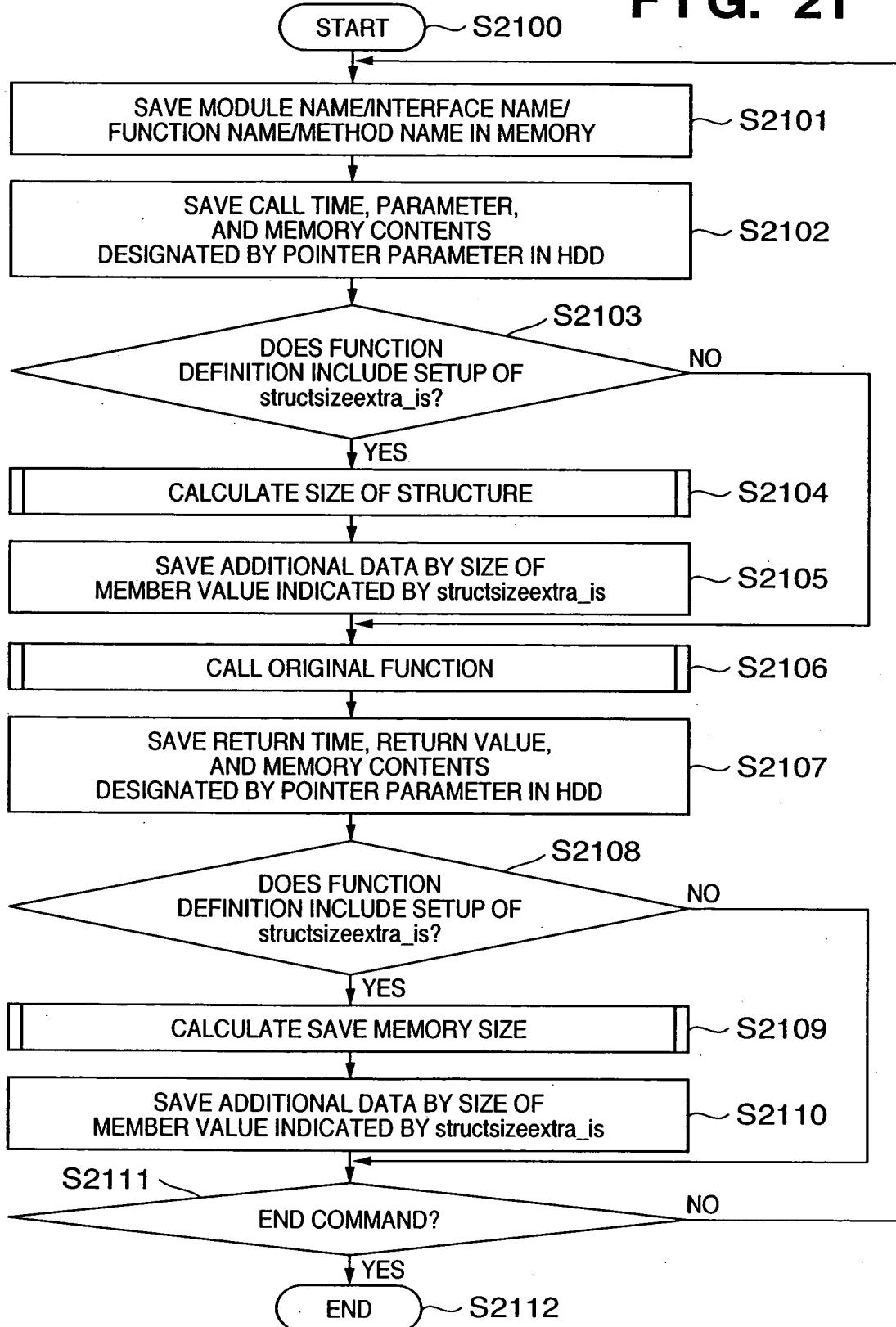


FIG. 21



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F I G. 22

2200

2201

MODULE NAME :	TestDllStd.DLL
FUNCTION NAME :	Func Structsizeextras
ARGUMENT (in) :	
ARGUMENT (out) :	<pre>struct TESTSTRUCT_WITHEXTRA: char chParam1 : "a" long cExtraBinaryDataSize: 8 char chParam2 : "b" char chParam3 : "c" ExtraBinaryData : 0x01F7B007. Data ID=0x0001</pre>
RETURN VALUE :	void :
In TIME :	2002/03/25 22:24:12.025
Out TIME :	2002/03/25 22:24:12.035
MODULE NAME :	TestDllStd.DLL
FUNCTION NAME :	Func Structsizeextras
ARGUMENT (in) :	
ARGUMENT (out) :	<pre>struct TESTSTRUCT_WITHEXTRA: char chParam1 : "d" long cExtraBinaryDataSize: 40 char chParam2 : "e" char chParam3 : "f" ExtraBinaryData : 0x01F7B007. Data ID=0x0002</pre>
RETURN VALUE :	void :
In TIME :	2002/03/25 22:24:12.046
Out TIME :	2002/03/25 22:24:12.057
MODULE NAME :	TestDllStd.DLL
FUNCTION NAME :	Func Structsizeextras
ARGUMENT (in) :	
ARGUMENT (out) :	<pre>struct TESTSTRUCT_WITHEXTRA: char chParam1 : "g" long cExtraBinaryDataSize: 5 char chParam2 : "h" char chParam3 : "i" ExtraBinaryData : 0x01F7B007. Data ID=0x0003</pre>
RETURN VALUE :	void :
In TIME :	2002/03/25 22:24:12.068
Out TIME :	2002/03/25 22:24:12.079
MODULE NAME :	TestDllStd.DLL
FUNCTION NAME :	Func Structsizeextras
ARGUMENT (in) :	
ARGUMENT (out) :	<pre>struct TESTSTRUCT_WITHEXTRA: char chParam1 : "j" long cExtraBinaryDataSize: 7 char chParam2 : "k" char chParam3 : "l" ExtraBinaryData : 0x01F7B007. Data ID=0x0004</pre>
RETURN VALUE :	void :
In TIME :	2002/03/25 22:24:12.100
Out TIME :	2002/03/25 22:24:12.179
...	

Data ID: 0x0001
Size: 8
00000000: 10 00 00 00 4A 03 A5 20
Data ID: 0x0002
Size: 40
00000000: 05 00 00 00 4A 03 A5 20
00000008: 05 00 00 00 4B 03 A5 20
00000010: 05 00 00 00 4C 03 A5 20
00000018: 05 00 00 00 4D 03 A5 20
00000020: 05 00 00 00 4E 03 A5 20
Data ID: 0x0003
Size: 40
00000000: 66 4A 70 50 00
Data ID: 0x0004
Size: 7
00000000: 01 5D 66 B2 20 49 20
...

FIG. 23

```
#define PAT_PARAM_ATTR_ID 00000000-0000-0000-0000-000000000000 2300

typedef [public] struct
{
    char chParam1; 2301
    [custom(PAT_PARAM_ATTR_ID, "ptrdiff()")] LPSTR lpszString;
    [custom(PAT_PARAM_ATTR_ID, "ptrdiff()")] long nNumber;
    char chParam2; 2302
} TESTSTRUCT_WITHPTRDIFF;

interface
test
{
    void FuncPtrdiff
    (
        [in] TESTSTRUCT_WITHPTRDIFF* lpParam 2303
    );
}
```

FIG. 24

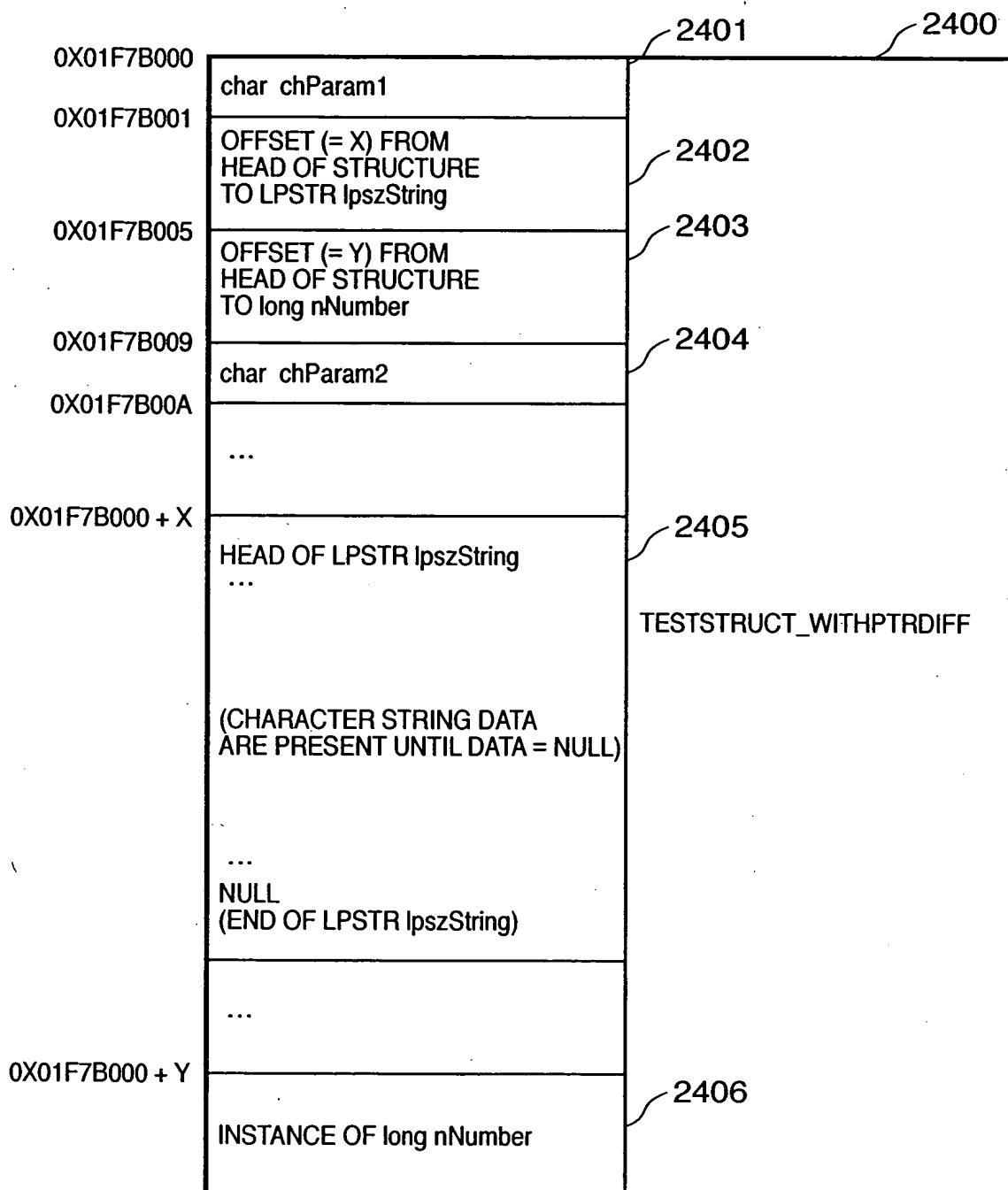


FIG. 25

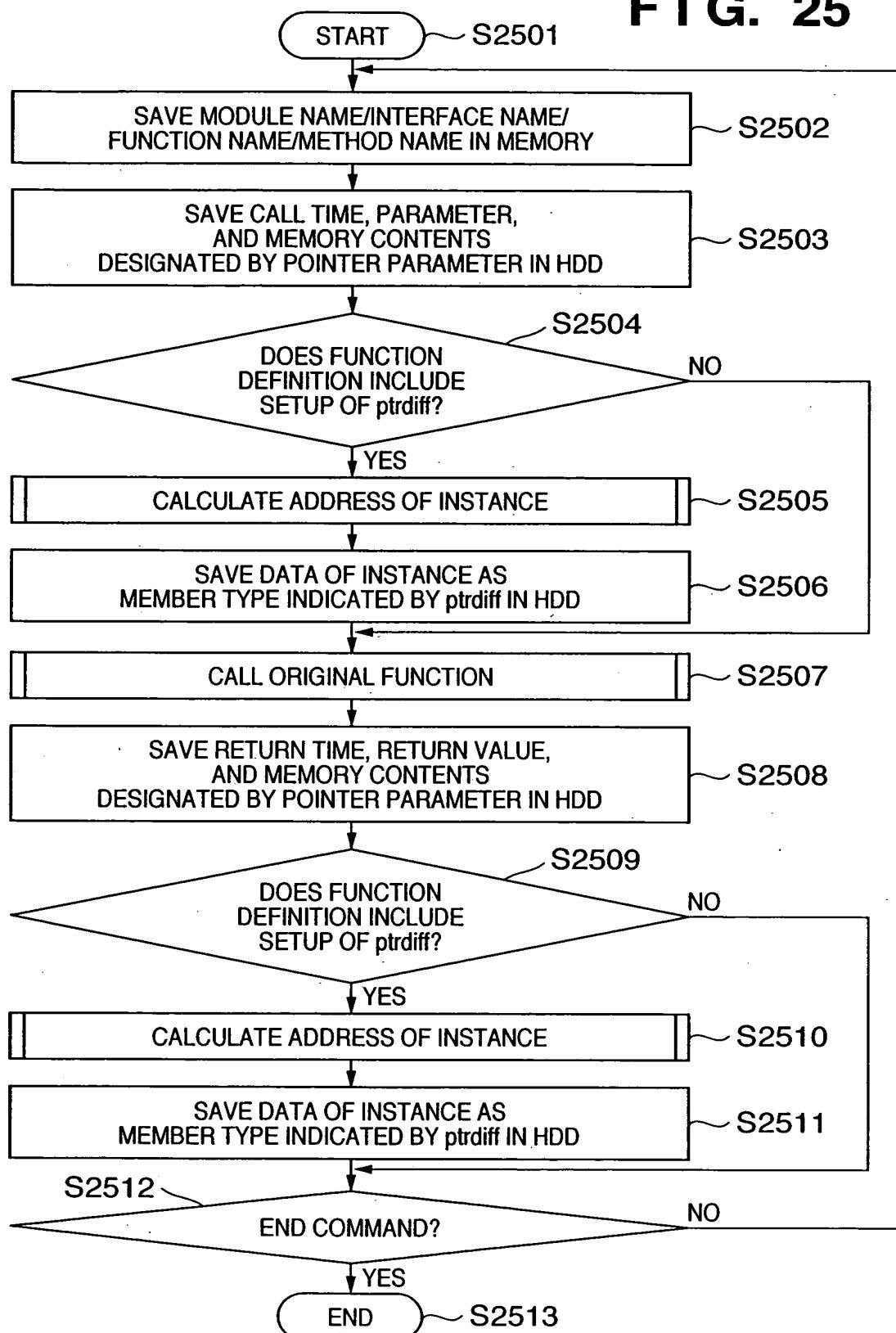


FIG. 26

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2600

MODULE NAME :	TestDIIStd.DLL
FUNCTION NAME :	FuncPtrdiff
ARGUMENT (in) :	struct TESTSTRUCT_WITHPTRDIFF : char chParam1 : "a" Offset to LPSTR IpszString : 16 LPSTR IpszString : "Test1" Offset to long nNumber : 28 long nNumber : 1 char chParam3 : " b"
ARGUMENT (out) :	
RETURN VALUE :	void :
In TIME :	2002/03/25 22:24:12.025
Out TIME :	2002/03/25 22:24:12.035
MODULE NAME :	TestDIIStd.DLL
FUNCTION NAME :	FuncPtrdiff
ARGUMENT (in) :	struct TESTSTRUCT_WITHPTRDIFF : char chParam1 : "c" Offset to LPSTR IpszString : 18 LPSTR IpszString : "Test2" Offset to long nNumber : 30 long nNumber : 2 char chParam3 : " d"
ARGUMENT (out) :	
RETURN VALUE :	void :
In TIME :	2002/03/25 22:24:12.046
Out TIME :	2002/03/25 22:24:12.057
MODULE NAME :	TestDIIStd.DLL
FUNCTION NAME :	FuncPtrdiff
ARGUMENT (in) :	struct TESTSTRUCT_WITHPTRDIFF : char chParam1 : "e" Offset to LPSTR IpszString : 20 LPSTR IpszString : "Test3" Offset to long nNumber : 32 long nNumber : 3 char chParam3 : " f"
ARGUMENT (out) :	
RETURN VALUE :	void :
In TIME :	2002/03/25 22:24:12.068
Out TIME :	2002/03/25 22:24:12.079
MODULE NAME :	TestDIIStd.DLL
FUNCTION NAME :	FuncPtrdiff
ARGUMENT (in) :	struct TESTSTRUCT_WITHPTRDIFF : char chParam1 : "g" Offset to LPSTR IpszString : 16 LPSTR IpszString : "Test4" Offset to long nNumber : 28 long nNumber : 29 char chParam3 : " h"
ARGUMENT (out) :	
RETURN VALUE :	void :
In TIME :	2002/03/25 22:24:12.100
Out TIME :	2002/03/25 22:24:12.179
...	

FIG. 27

```
#define PAT_PARAM_ATTR_ID 00000000-0000-0000-0000-000000000000 2700

interface test; 2701

typedef struct tagGUID {
    unsigned long Data1;
    unsigned short Data2;
    unsigned short Data3;
    unsigned char Data4[ 8 ];
} GUID;

interface test {
    HRESULT _stdcall DllGetClassObject( 2702
        [ in, custom(PAT_PARAM_ATTR_ID, "clsid_( )" ) ] GUID* rctsid,
        [ in ] GUID* riid,
        [ out, custom(PAT_PARAM_ATTR_ID, "iid_is(riid)" ) ] void** ppv );
}; 2703
```

FIG. 28

```
2800
interface IGetInfo : IUnknown
{
    HRESULT GetName(
        [ in ]          DWORD      dwID,
        [ out]         LPSTR      lpszName
    );
    HRESULT FreeNameBuffer (
        [ in ]          LPSTR      lpszName
    );
}
```

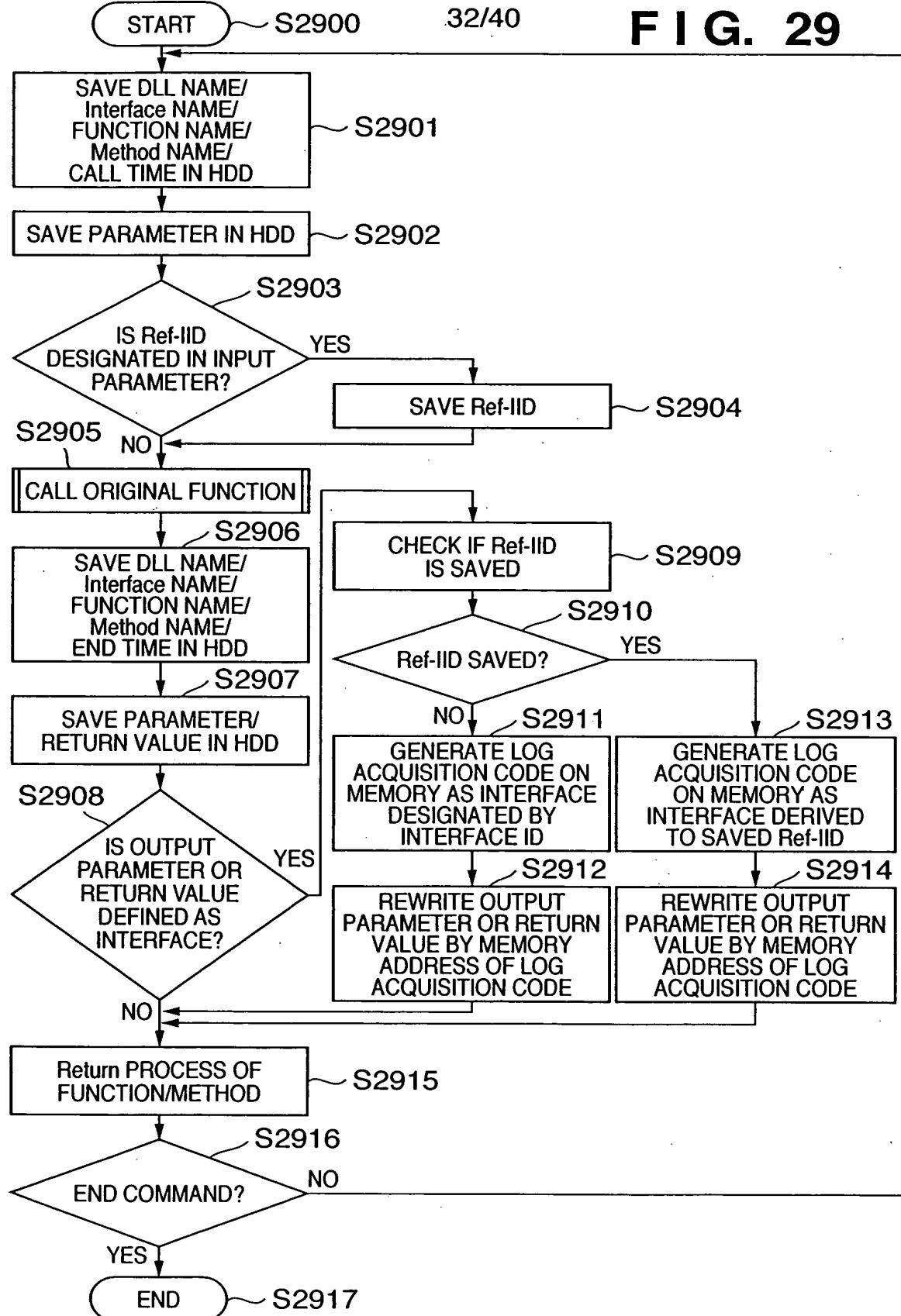


FIG. 30

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MODULE NAME	GetInfo.dll	
FUNCTION NAME :	DllGetClassObject	3000
In ARGUMENT :	GUID* rclsid : {abce80d7-9f46-11d1-882a-00c04fb961ec}	
	GUID* iid : {00000001-0000-0000-c000-0000000046}	
Out ARGUMENT :	void**ppv : 0x007a61c0/0x730e13e8(1930302440)	
RETURN VALUE :	HRESULT : 0x00000000(0)	
In TIME :	2002/03/25 22:24:12.025	3002
Out TIME :	2002/03/25 22:24:12.035	3001
Interface NAME :	GetInfo	
Method NAME :	GetName	
In ARGUMENT :	DWORD dwID : 1	
	LPSTR IpszName "Name-1"	
RETURN VALUE :	HRESULT : 0x00000000(0)	
In TIME :	2002/03/25 22:24:12.046	
Out TIME :	2002/03/25 22:24:12.057	
Interface NAME :	GetInfo	
Method NAME :	FreeNameBuffer	
In ARGUMENT :	LPSTR IpszName "Name-1"	
	HRESULT : 0x00000000(0)	
RETURN VALUE :	2002/03/25 22:24:12.068	
In TIME :		
Out TIME :	2002/03/25 22:24:12.079	
Interface NAME :	GetInfo	
Method NAME :	GetName	
In ARGUMENT :	DWORD dwID : 2	
	LPSTR IpszName "Name-2"	
RETURN VALUE :	HRESULT : 0x00000000(0)	
In TIME :	2002/03/25 22:24:12.089	
Out TIME :	2002/03/25 22:24:13.000	
Interface NAME :	GetInfo	
Method NAME :	FreeNameBuffer	
In ARGUMENT :	LPSTR IpszName "Name-2"	
	HRESULT : 0x00000000(0)	
RETURN VALUE :	2002/03/25 22:24:13.011	
In TIME :		
Out TIME :	2002/03/25 22:24:13.022	

...

FIG. 31

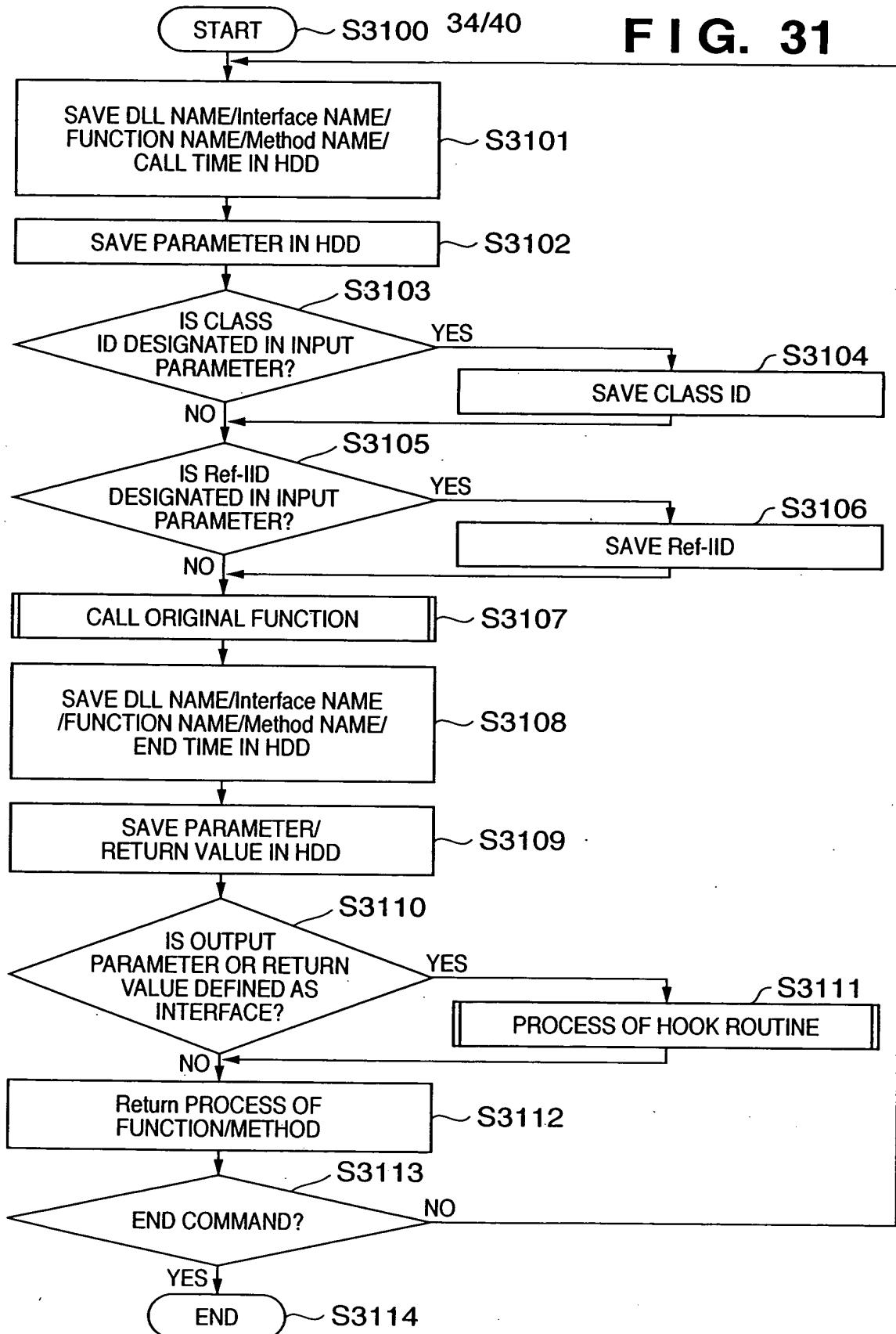


FIG. 32

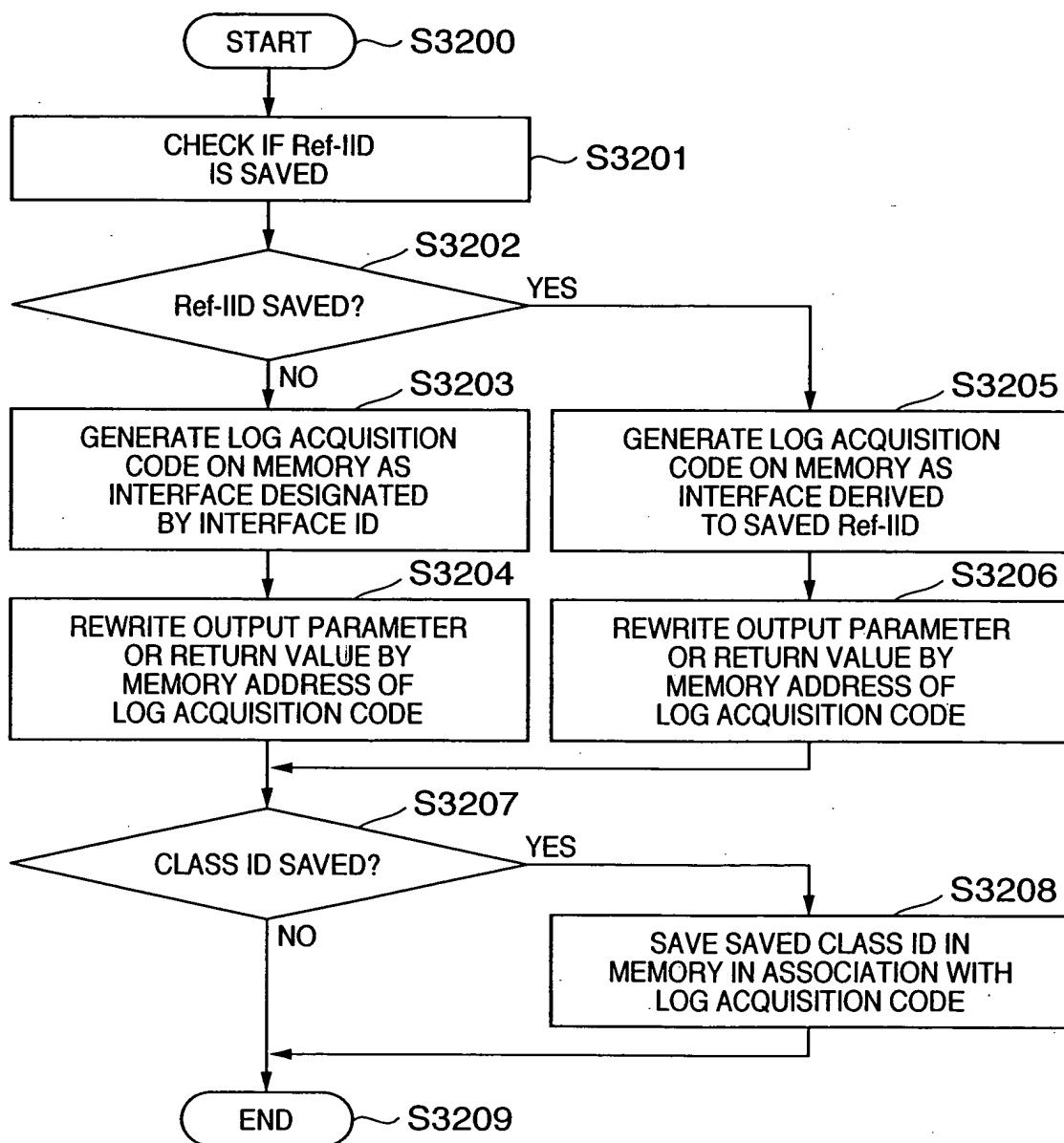


FIG. 33

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MODULE NAME	GetInfo.dll	3300
FUNCTION NAME :	DIIGetClassObject	
In ARGUMENT :	GUID* rclsid : {abce80d7-9f46-11d1-882a-00c04fb961ec}	
Out ARGUMENT :	GUID* riid : {00000001-0000-0000-c000-0000000046}	
RETURN VALUE :	void**ppv : 0x007a61c0/0x730e13e8(1930302440)	
In TIME :	HRESULT : 0x00000000(0)	
Out TIME :	2002/03/25 22:24:12.025	3302
	2002/03/25 22:24:12.035	
MODULE NAME	GetInfo.dll	3301
Interface NAME :	GetInfo	
Method NAME :	GetName	
In ARGUMENT :	DWORD dwID : 1	
RETURN VALUE :	LPSTR IpszName "Name-1"	
In TIME :	HRESULT : 0x00000000(0)	
Out TIME :	2002/03/25 22:24:12.046	
MODULE NAME	GetInfo.dll	3303
Interface NAME :	GetInfo	
Method NAME :	FreeNameBuffer	
In ARGUMENT :	LPSTR IpszName "Name-1"	
RETURN VALUE :	HRESULT : 0x00000000(0)	
In TIME :	2002/03/25 22:24:12.057	
MODULE NAME	GetInfo.dll	3304
Interface NAME :	GetInfo	
Method NAME :	GetName	
In ARGUMENT :	LPSTR IpszName "Name-1"	
RETURN VALUE :	HRESULT : 0x00000000(0)	
In TIME :	2002/03/25 22:24:12.068	
Out TIME :	2002/03/25 22:24:12.079	
MODULE NAME	GetInfo.dll	3305
Interface NAME :	GetInfo	
Method NAME :	GetName	
In ARGUMENT :	DWORD dwID : 2	
RETURN VALUE :	LPSTR IpszName "Name-2"	
In TIME :	HRESULT : 0x00000000(0)	
Out TIME :	2002/03/25 22:24:12.089	
MODULE NAME	GetInfo.dll	3306
Interface NAME :	GetInfo	
Method NAME :	FreeNameBuffer	
In ARGUMENT :	LPSTR IpszName "Name-2"	
RETURN VALUE :	HRESULT : 0x00000000(0)	
In TIME :	2002/03/25 22:24:13.011	
Out TIME :	2002/03/25 22:24:13.022	
...		

FIG. 34

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```
[  
    uuid(58DB5633-0694-4340-97CE-4E1AC6BFFBA7),  / /TestDIIStd.  
    helpstring("TestDIIStd Type Library For PAT"),  
    version(1.0)  
]  
  
library TestDIIStd  
{  
    typedef [public] struct  
    {  
        char chParam;  
        unsigned char uchParam;  
        short sParam;  
        unsigned short usParam;  
        int nParam;  
        unsigned int unParam;  
        long lParam;  
        unsigned long ulParam;  
        double dbParam;  
        float fParam;  
    } TESTSTRUCT;  
    typedef [public] TESTSTRUCT *LPTESTSTRUCT;  
  
    //DEFINE_GUID(GUID_PROGID, 0x8e037d65, 0xefa0, 0x40e7, 0x91, 0x43, 0xef, 0x70, 0x56, 0x94, 0  
    0x79);  
    [  
        uuid(8E037D65-EFA0-40e7-9143-EF7056945B79),  
        helpstring("TestDIIStd.dll for PAT object." ),  
    ]  
    interface  
        test  
        {  
            char _stdcall FuncCharStd([in] char chParam);  
            char* _stdcall FuncPCharStd([in, out] char* lpchParam);  
  
            TESTSTRUCT _stdcall FuncStructStd([in]TESTSTRUCT TestStruct);  
            LPTESTSTRUCT _stdcall FuncPStructStd([in, out]LPTESTSTRUCT lpTestStruct);  
        };  
    }  
}
```

FIG. 35

[Library] 3500
LibraryName=TestDIIStd 3501
Patch=C:\Windows\System32\spool\drivers\w32x86\3
ModuleName=UnidrvUIPlugin.dll 3502
...

FIG. 36

```
[Interface] 3600
InterfaceName=test 3601
Patch=C:\Windows\System32\spool\drivers\w32x86\3
ModuleName=UnidrvUIPlugin.dll 3602
...
```

FIG. 37

